THOMSON MULTI MEDIA

Brandt FERGUSON SABA TELEFUNKEN THOMSON

AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON **DPL 560 HT**
DPL 660 HT

*PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicado nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.

Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Stereo pre-main amplifier Préampli-ampli stéréophonique Stéreo-Vollverstärker Preamplificatore-amplificatore stereofonico Préamplificador-amplificador estereofónico
	430 mm ↕ 130 mm ↗ 420 mm
Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	~ 230 V - 50Hz
Nominal output power : **Puissance nominale de sortie :** **Nennausgangsleistung :** **Potenza nominale di uscita :** **Potencia nominal de salida :**	50 W (PAV5008) 100 W (PAV5009)
FM - MF : 87,5 - 108 MHz **MW - PO :** 522 - 1611 kHz **LW - GO :** 150 - 283 kHz	**Sensitivity :** **Sensibilité :** **FM - MF :** 4 µV (S/N =30 dB) **Empfindlichkeit :** **MW - PO :** 600 µV/m (S/N = 20 dB) **Sensibilità :** **LW - GO :** 1500 µV/m (S/N = 20 dB) **Sensibilidad :**
Frequency response : **Courbe de réponse :** **Frequenzgang :** 20Hz - 20 kHz **Curva di risposta :** **Curva de respuesta :**	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** 65 dB (1kHz) **Rapporto segnale / disturbo :** **Relación señal / ruido :**
Input sensitivity **Sensibilité des entrées** **Eingangsempfindlichkeit** 500mV +/- 100 **Sensibilità dei ingresso** **Sensibilidad de las entradas**	**Stereo separation :** **Diaphonie :** **Übersprechdämpfung :** 55 dB (1kHz) **Diafonia :** **Diafonía :**

WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 356 539 50 - 1002 / 3,1M - PAV 560 HT / PAV 660 HT - Print.

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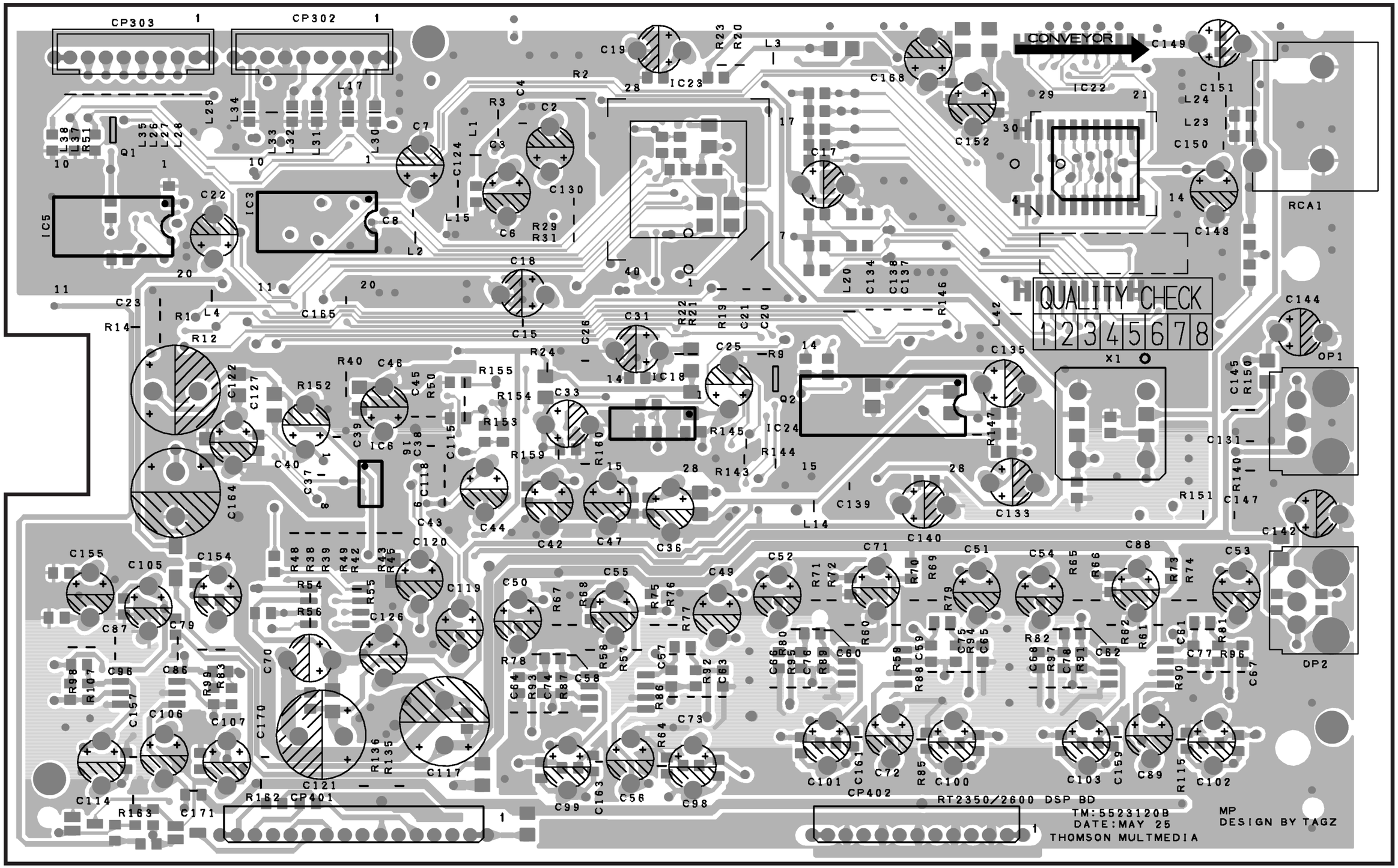
DIGITAL PROCESSING P.C.B. - PLATINE TRAITEMENT DIGITAL - LTPL. DIGITALVERARBEITUNG - PIASTRA ELABORAZIONE DIGITALE - PLATINA TRATAMIENTO DIGITAL

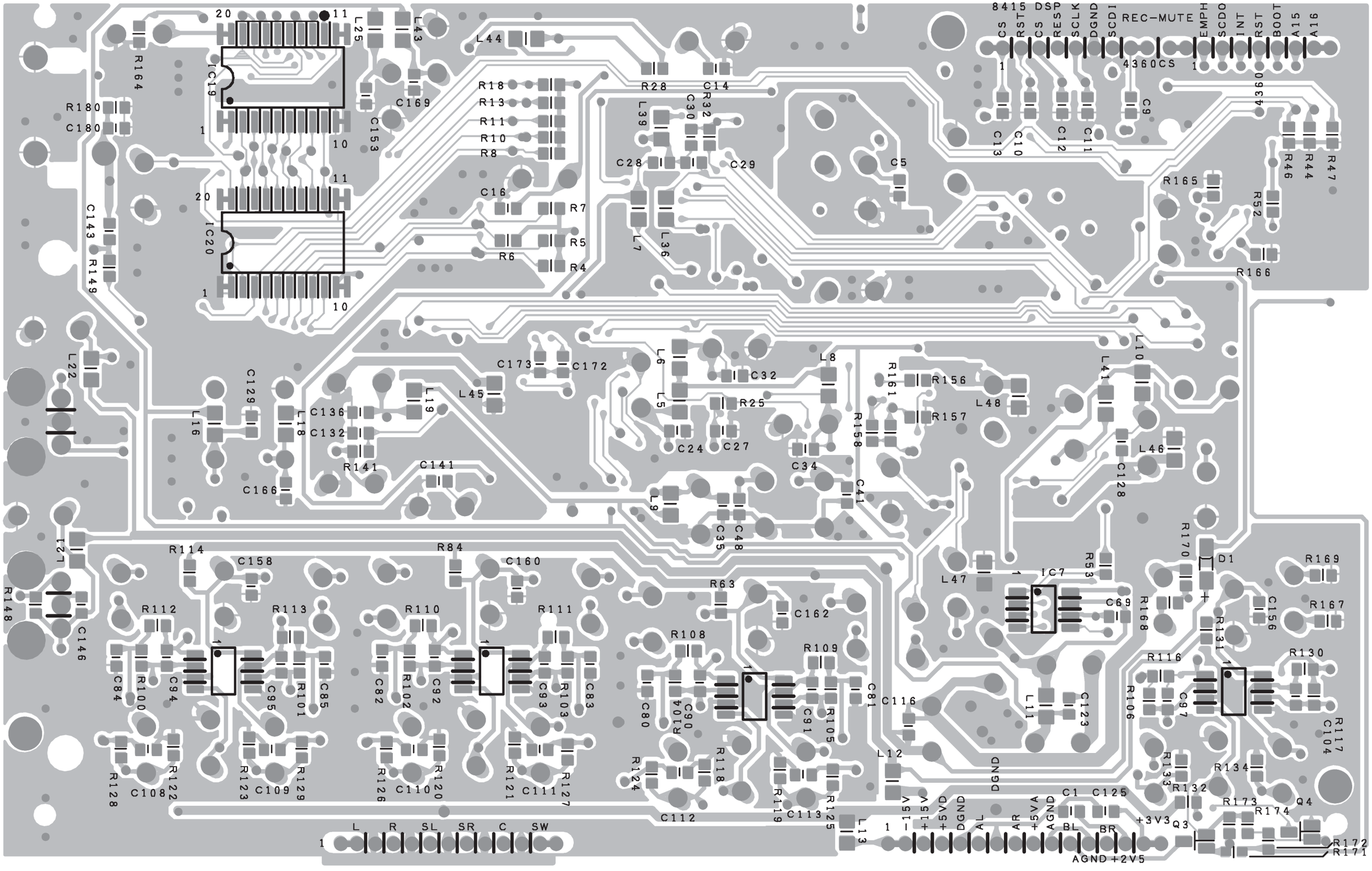
COMPONENT SIDE - COTÉ COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



DIGITAL PROCESSING P.C.B. - PLATINE TRAITEMENT DIGITAL - LTPL. DIGITALVERARBEITUNG - PIASTRA ELABORAZIONE DIGITALE - PLATINA TRATAMIENTO DIGITAL

* Solder side - côté cuivre - Lötseite - Lato saldature -Lado del cobre

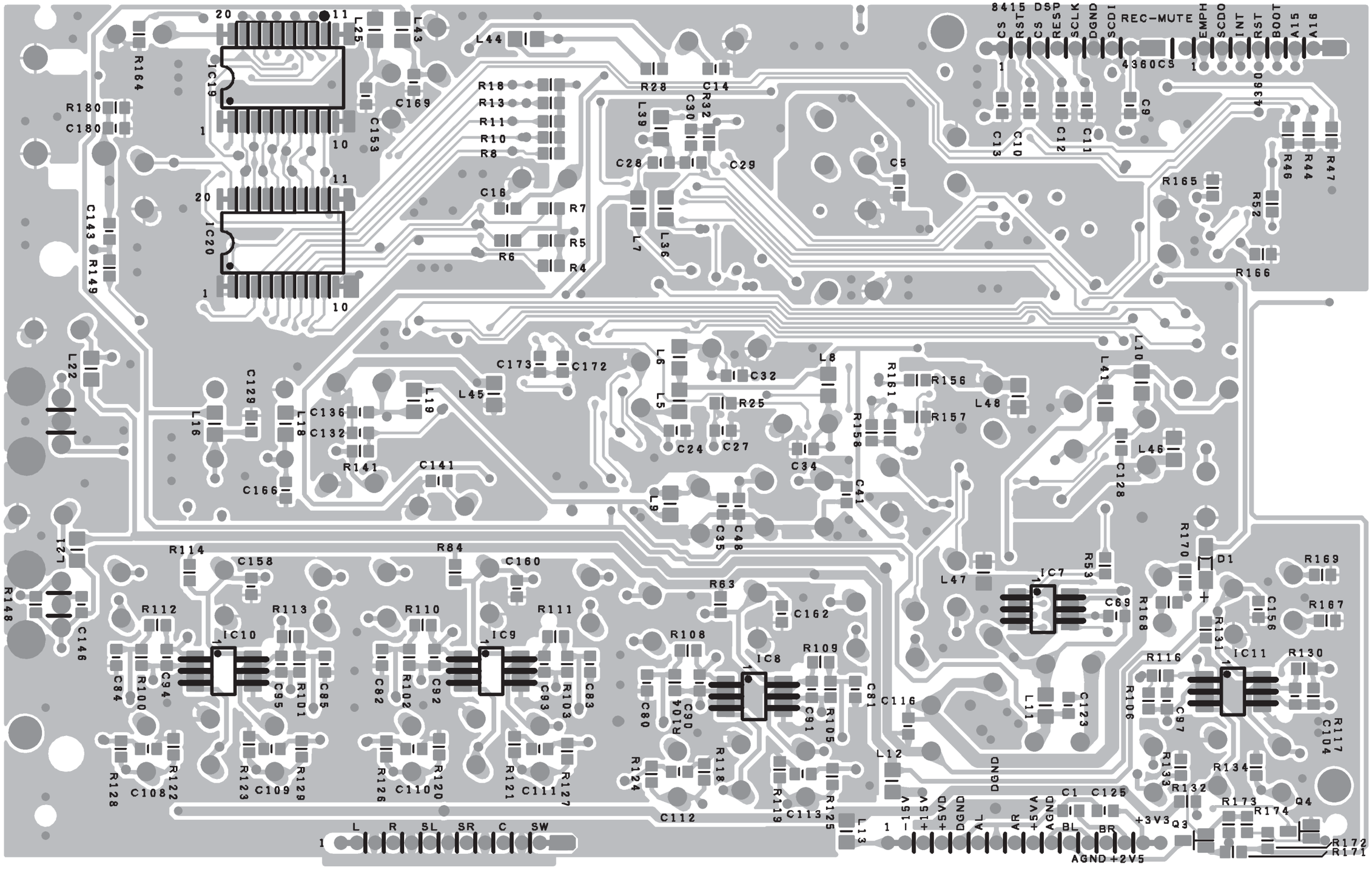
A.INDEX



DIGITAL PROCESSING P.C.B. - PLATINE TRAITEMENT DIGITAL - LTPL. DIGITALVERARBEITUNG - PIASTRA ELABORAZIONE DIGITALE - PLATINA TRATAMIENTO DIGITAL

* Solder side - côté cuivre - Lötseite - Lato saldature -Lado del cobre

B.INDEX



INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER
SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

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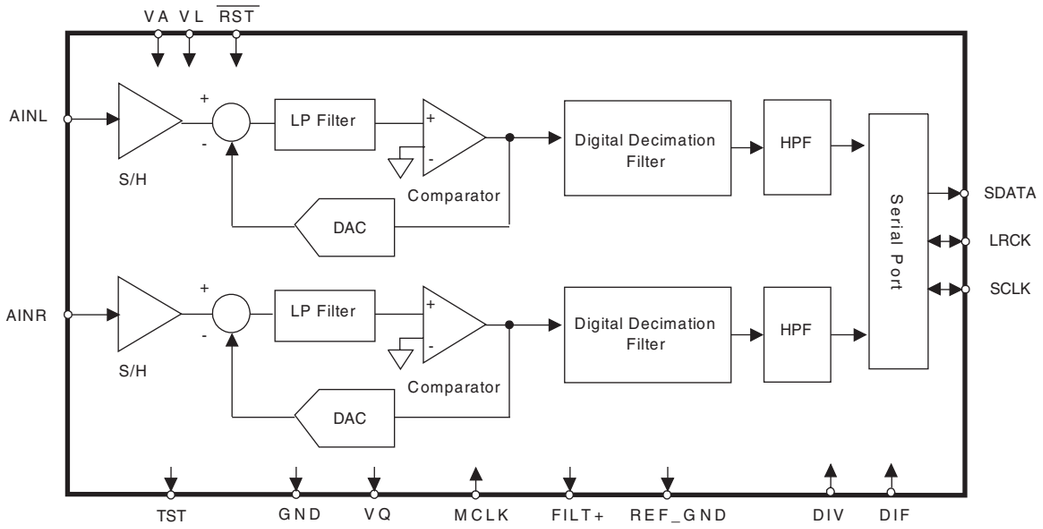
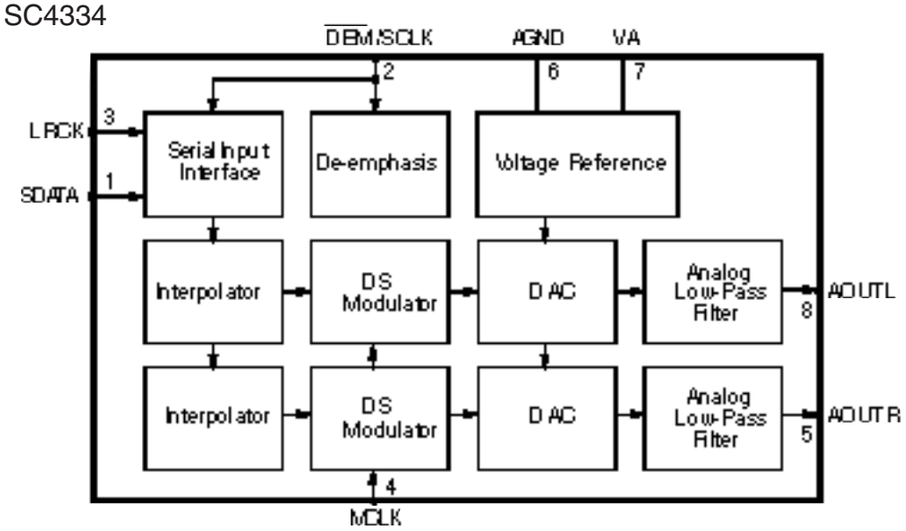
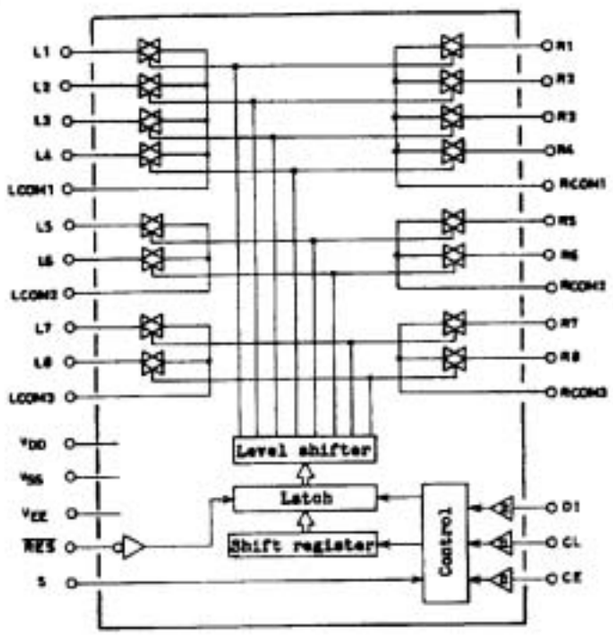


IC007 SC4334



IC200 LC78211



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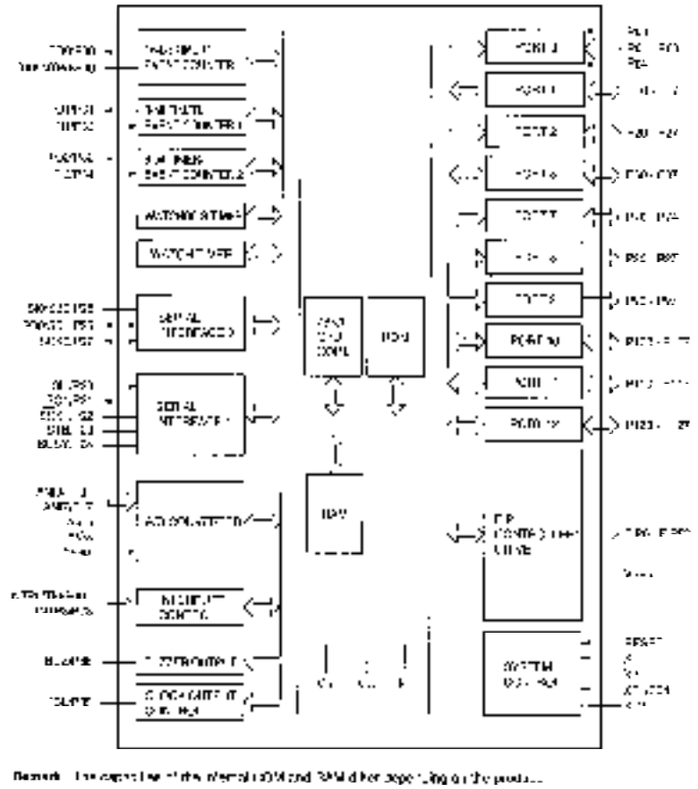

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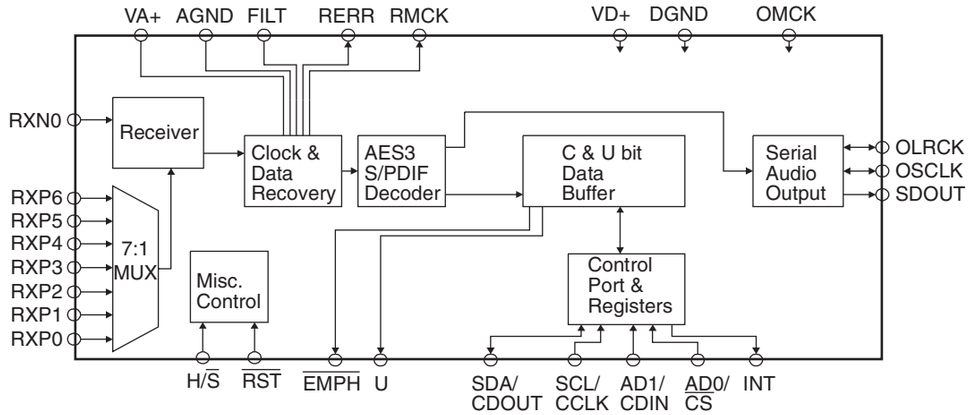

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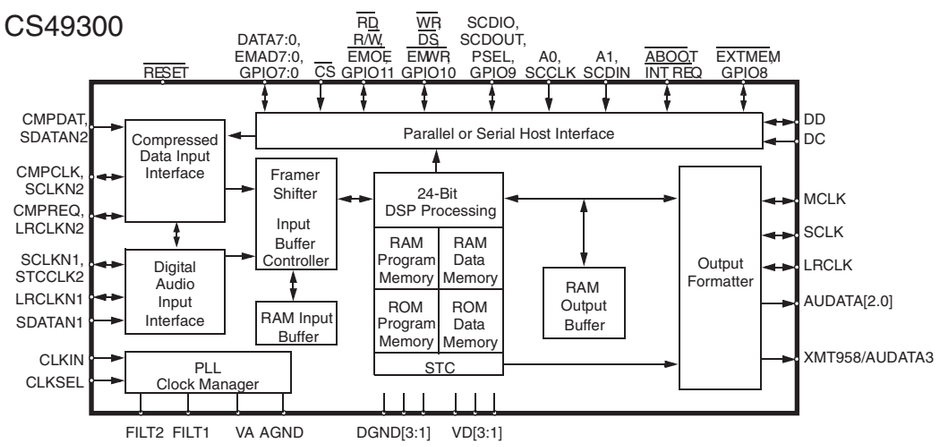
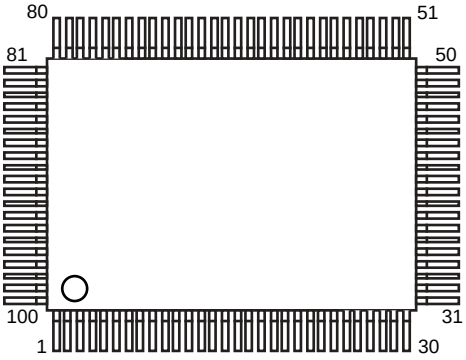


INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
CIRCUITOS INTEGRADOS Y TRANSISTORES



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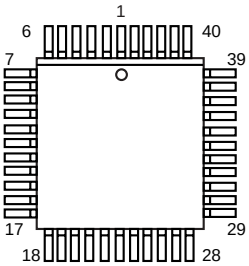

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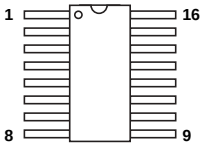

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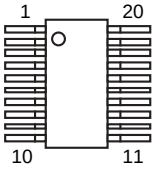
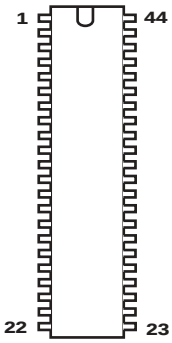


74VHC574 MTR
74VHC245 MTR



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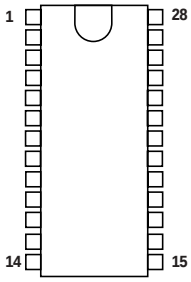

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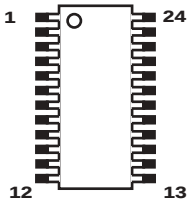
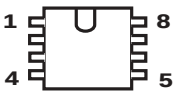
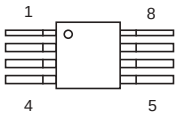


CS8415A



BH3544 F



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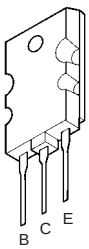
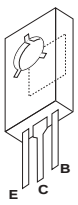
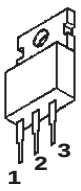


2SD2589
2SD2560
2SD2493
2SD2390
2SB1659
2SB1647
2SB1624
2SB1560



2SC4137

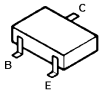


KIA 7805

KTC3875GR
KTC2874
KTC3200

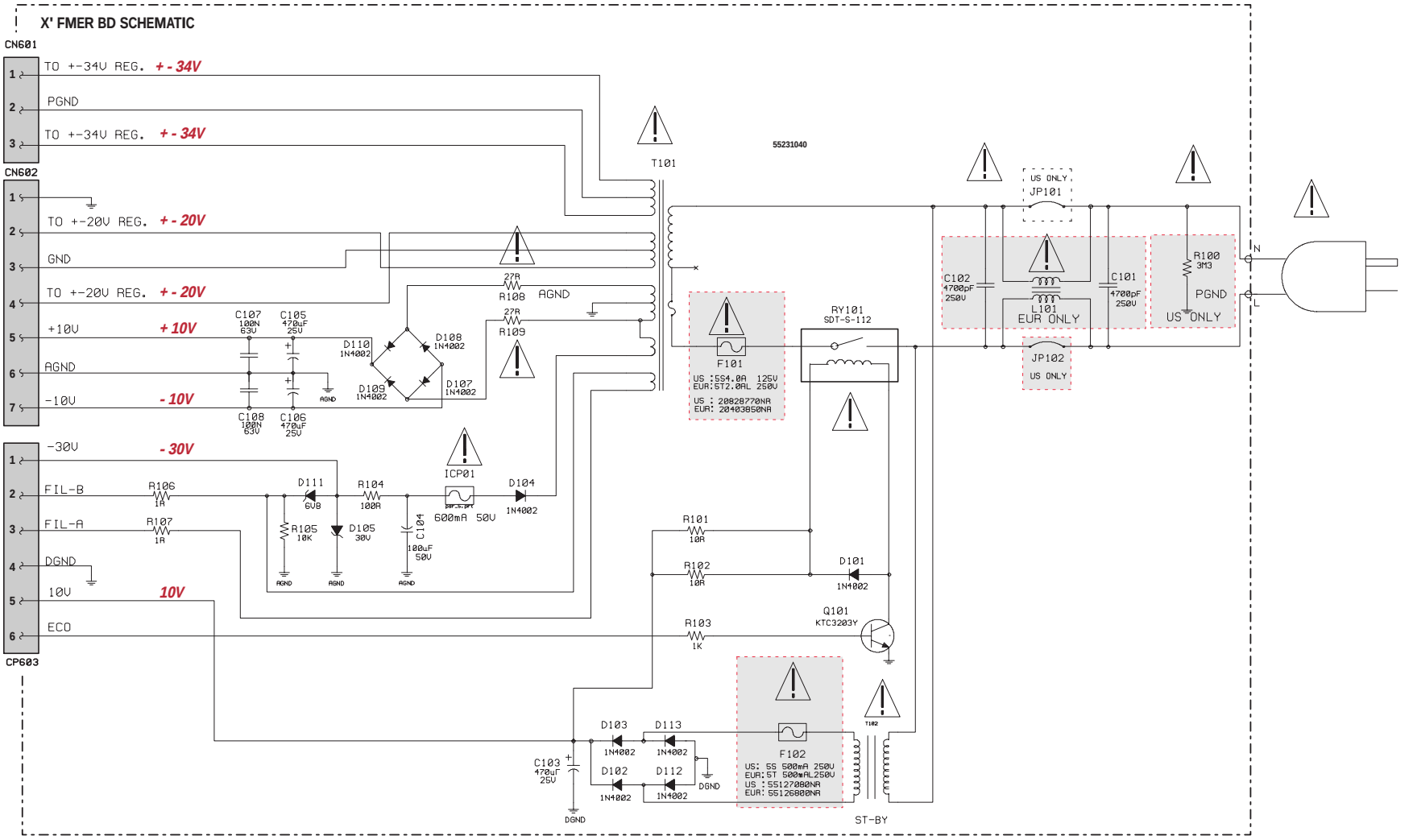
2SK117Y

KTA 1268
KTA 1266
KTC 3200
KTD 1302
2SA1266Y

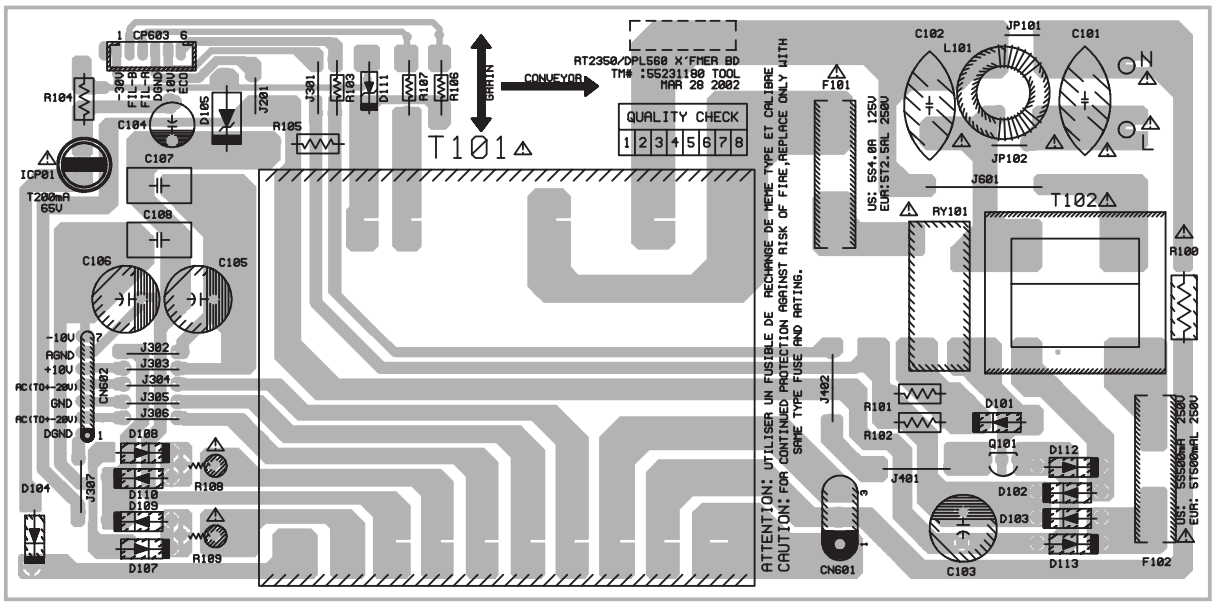


KRC107S
KRC3875GR
DTA114YAK
DTA114YAS

POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DES CIRCUITS D'ALIMENTATIONS - SCHALTBILD NETZTEIL - SCHEMA DEI CIRCUITI DI ALIMENTAZIONE - ESQUEMA DE LOS CIRCUITOS DE ALIMENTACIÓN



Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR

NOTES:
1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/16W
   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

FAN BD

DP01

FRONT

ref.	w/diode	wo/diode
D705	W/LW (MW)	WO/LW (AM)
D706	W/TUNER PS	WO/TUNER PS
D707	W/RDS	NO RDS
D708	DSP EXT.MEM	DSP INT.MEM
D709	AM 9K/STEP	AM 10K/STEP
D710	FM 50K/STEP	FM 200K/STEP

RT2280X ONLY

Encoder TB Board

Standby Board

HEADPHONE BOARD

FRONT VIDEO BOARD

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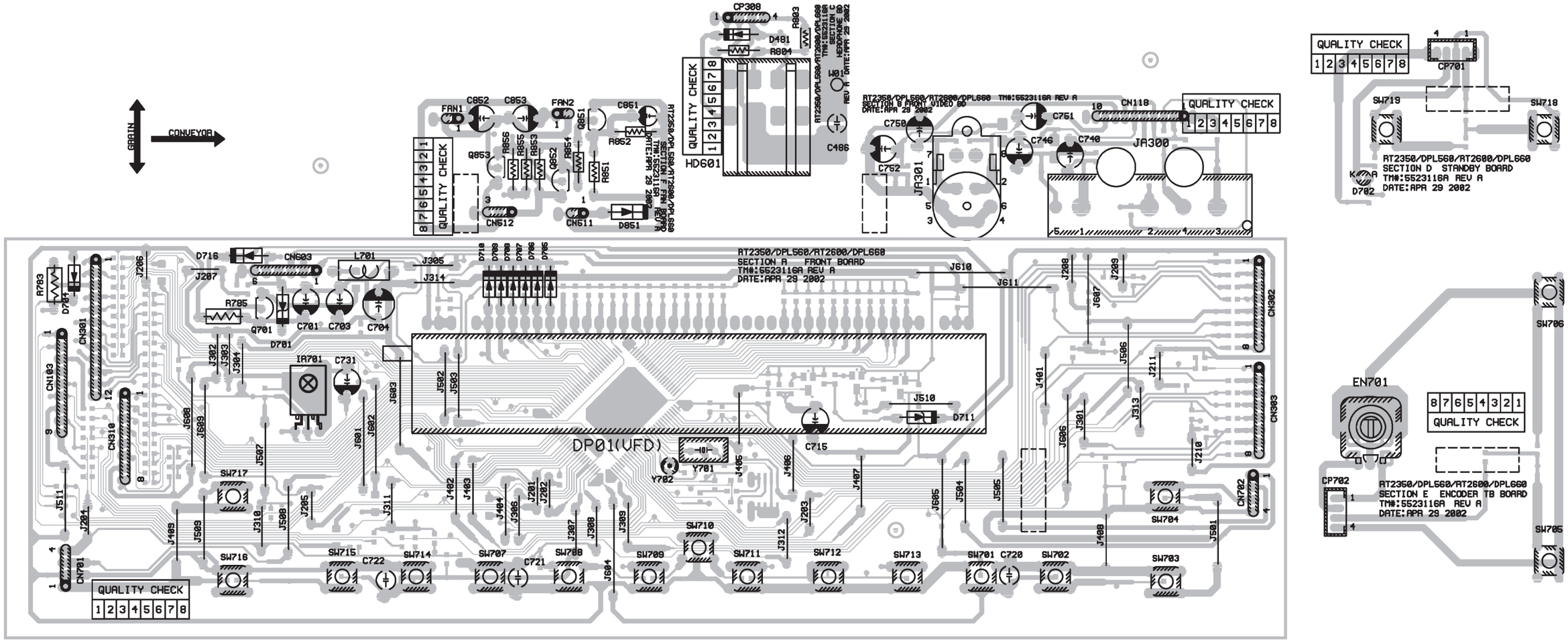
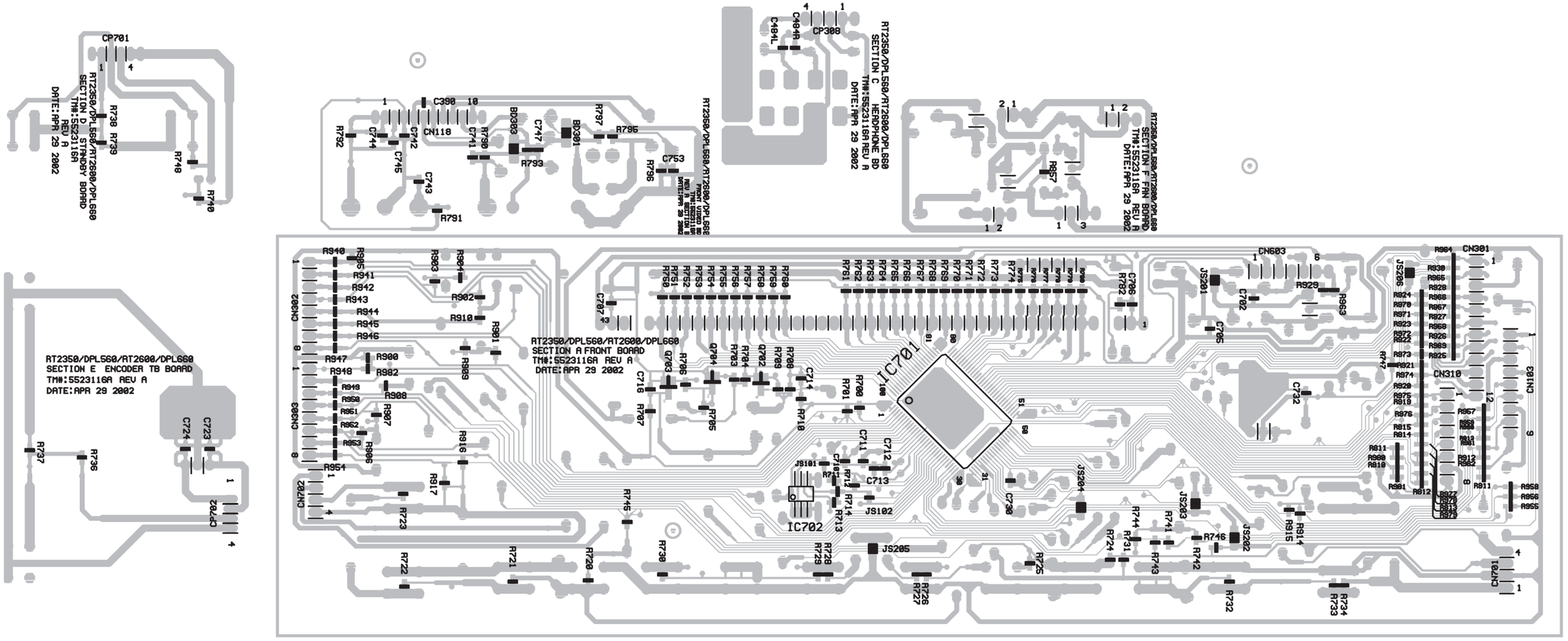
KEYBOARD CIRCUIT BOARDS - CIRCUITS IMPRIMES PLATINES COMMANDES - LEITERPLATTE BEDIENTEIL - PIASTRE TASTIERA - PLATINAS MANDOS

COMPONENT SIDE - COTÉ COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

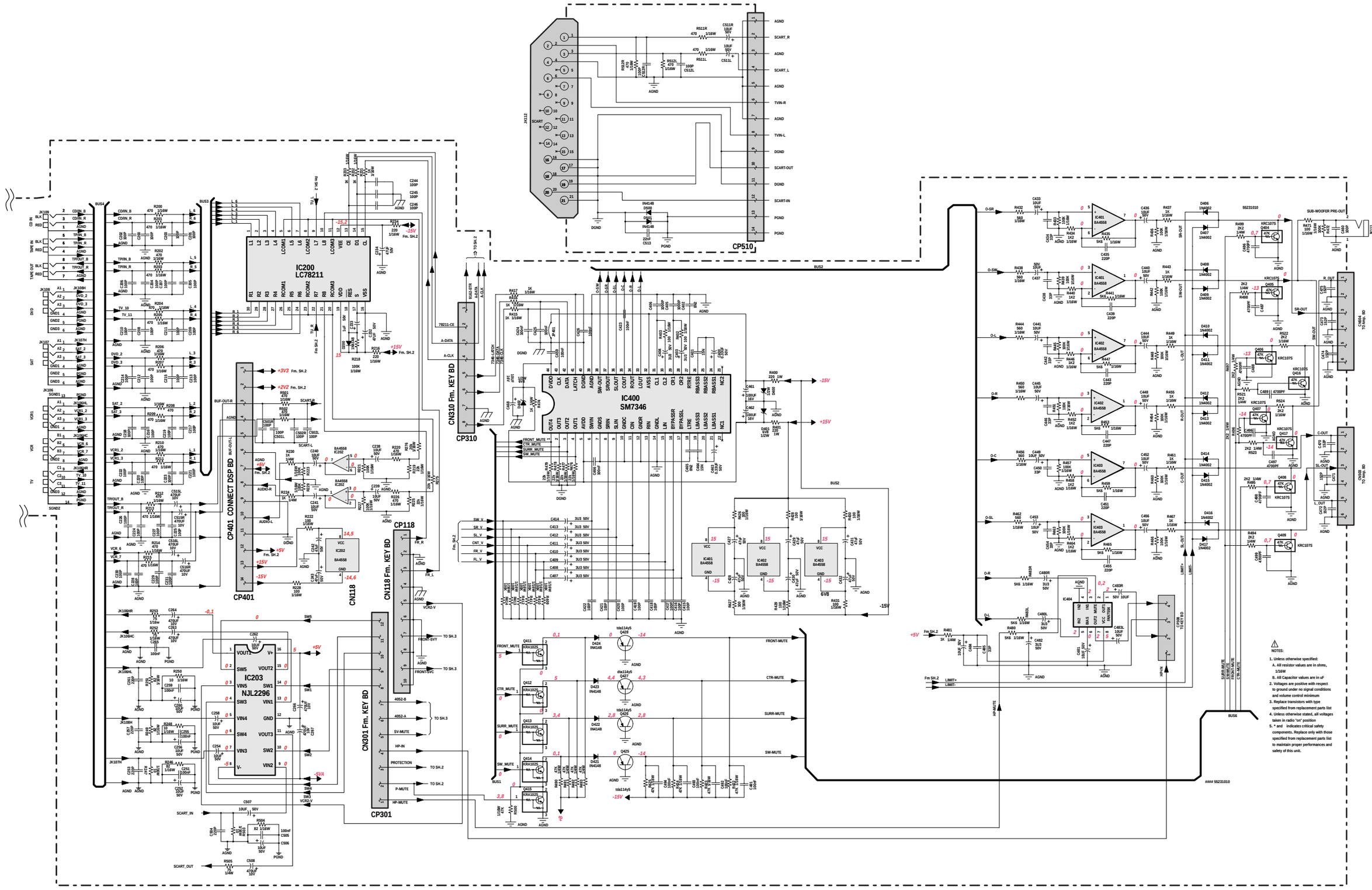


KEYBOARD CIRCUIT BOARDS - CIRCUITS IMPRIMES PLATINES COMMANDES - LEITERPLATTE BEDIENTEIL - PIASTRE TASTIERA - PLATINAS MANDOS

Solder side - côté cuivre - Lötseite - Lato saldature -Lado del cobre



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL (PRE-AMPLIFIER PART)


CP510
IC200 LC78211
IC400 SM7346
CP310
CN310 Fm. KEY BD
CP401 CONNECT DSP BD
IC203 NJL2296
CP118
CN118 Fm. KEY BD
CN301 Fm. KEY BD
CP301
IC401 BA4558
IC402 BA4558
IC403 BA4558
IC404
IC202 BA4558
SUB-WOOFER PRE-OUT
NOTES:
1. Unless otherwise specified:
A. All resistor values are in ohms, 1/16W
B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

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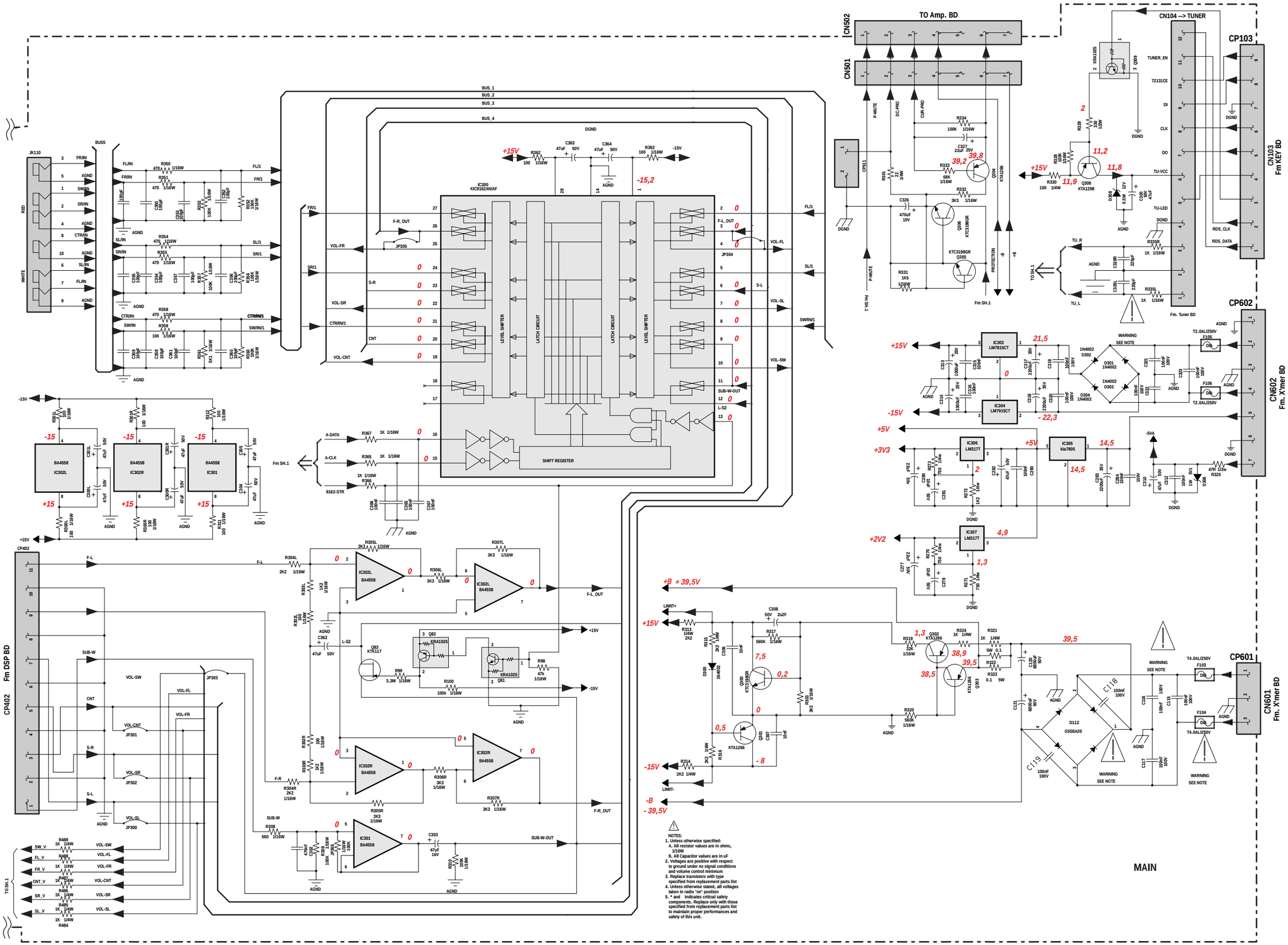
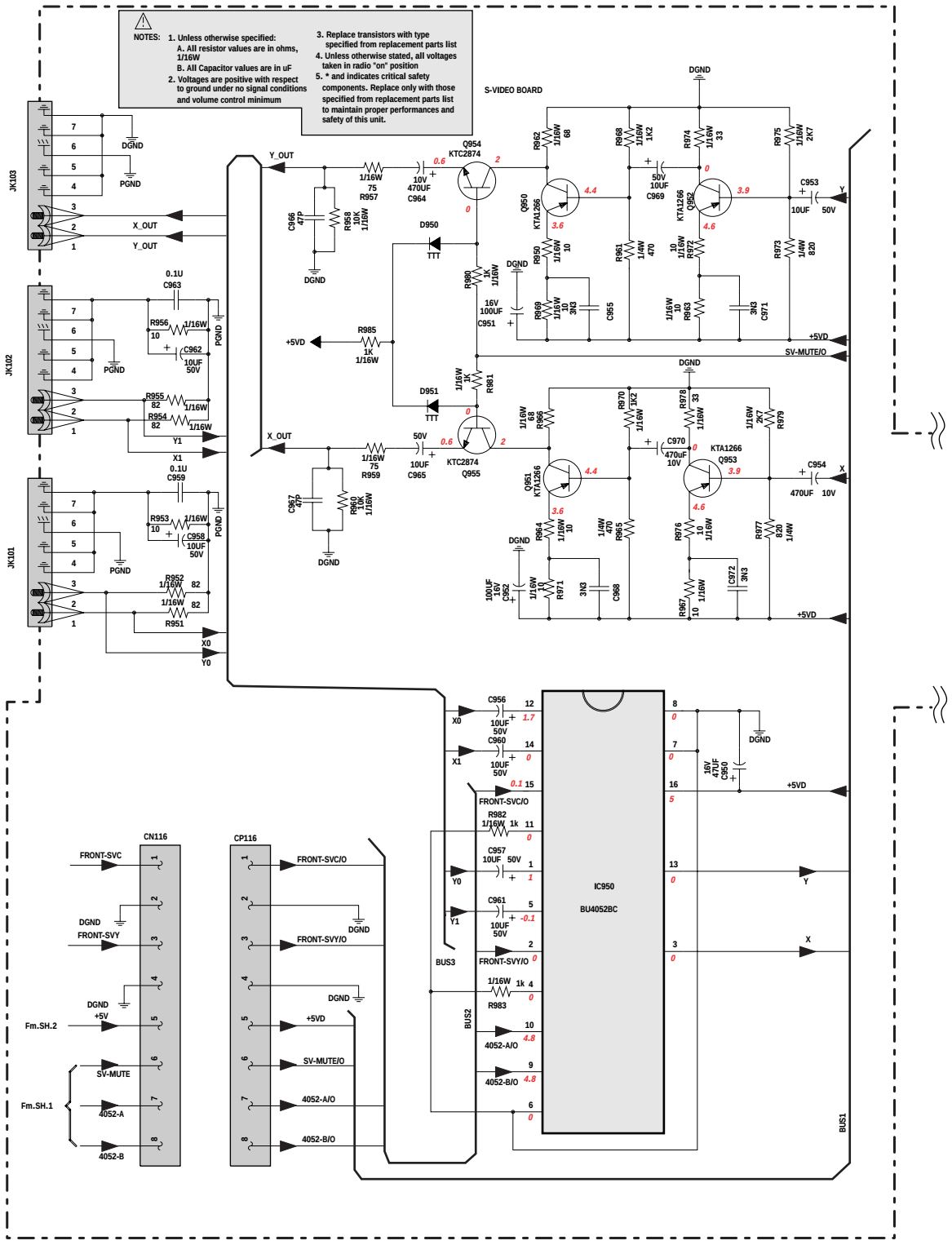
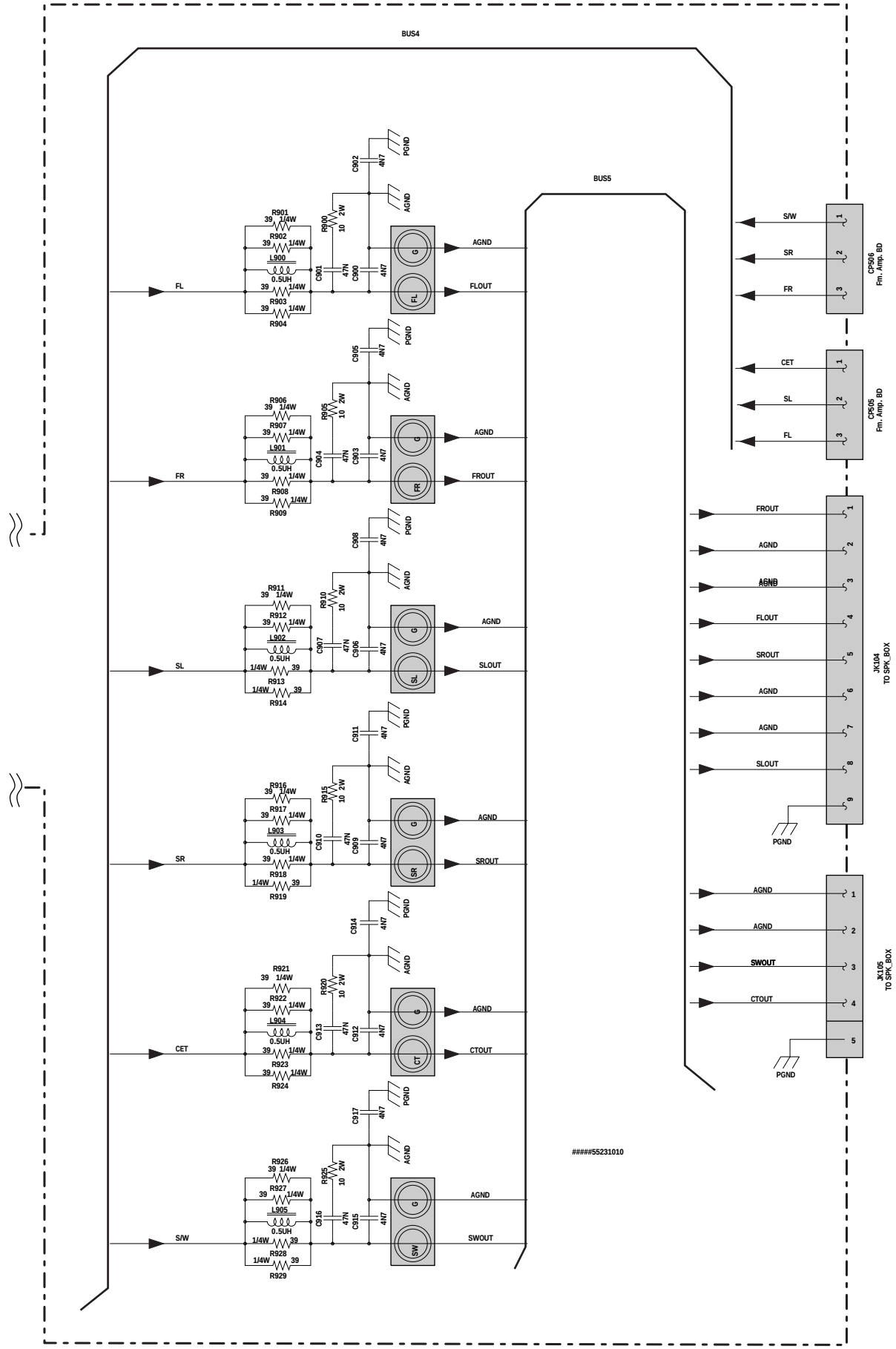
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL (PRE-AMPLIFIER PART)



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL (PRE-AMPLIFIER PART)

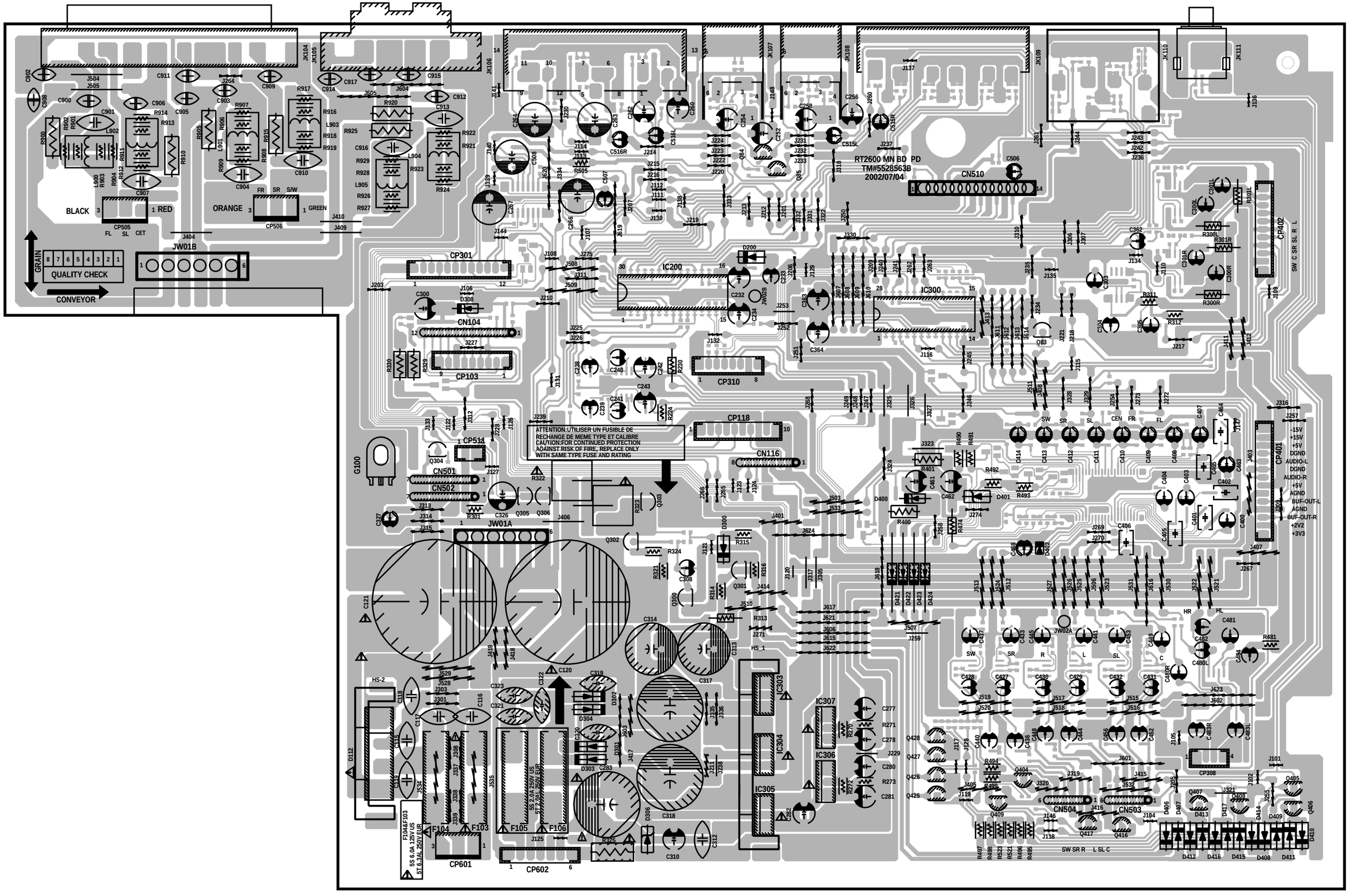


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL (PRE-AMPLIFIER PART)



Main P.C.B. components side - Circuit imprimé de la platine principale côté composants - Hauptleiterplatte Bestückungsseite (1. VERSION)
Piastra principale lato componenti - Platina principal lado componentes

Component side - Côté composants - Bestückungsseite Lato componenti - Lado componentes



PAV 5008 / 5009
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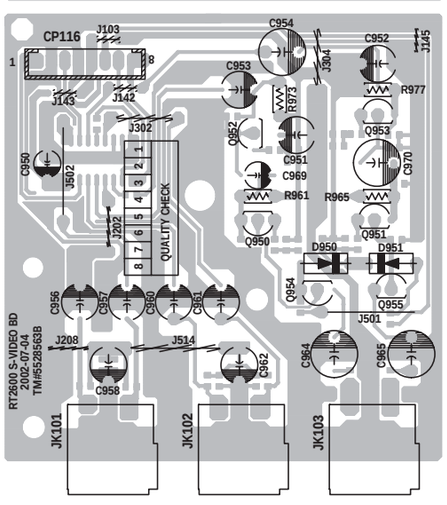
Main P.C.B. components side - Circuit imprimé de la platine principale côté composants - Hauptleiterplatte Bestückungsseite (2. VERSION)
Piastra principale lato componenti - Platina principal lado componentes

Component side - Côté composants - Bestückungsseite Lato componenti - Lado componentes

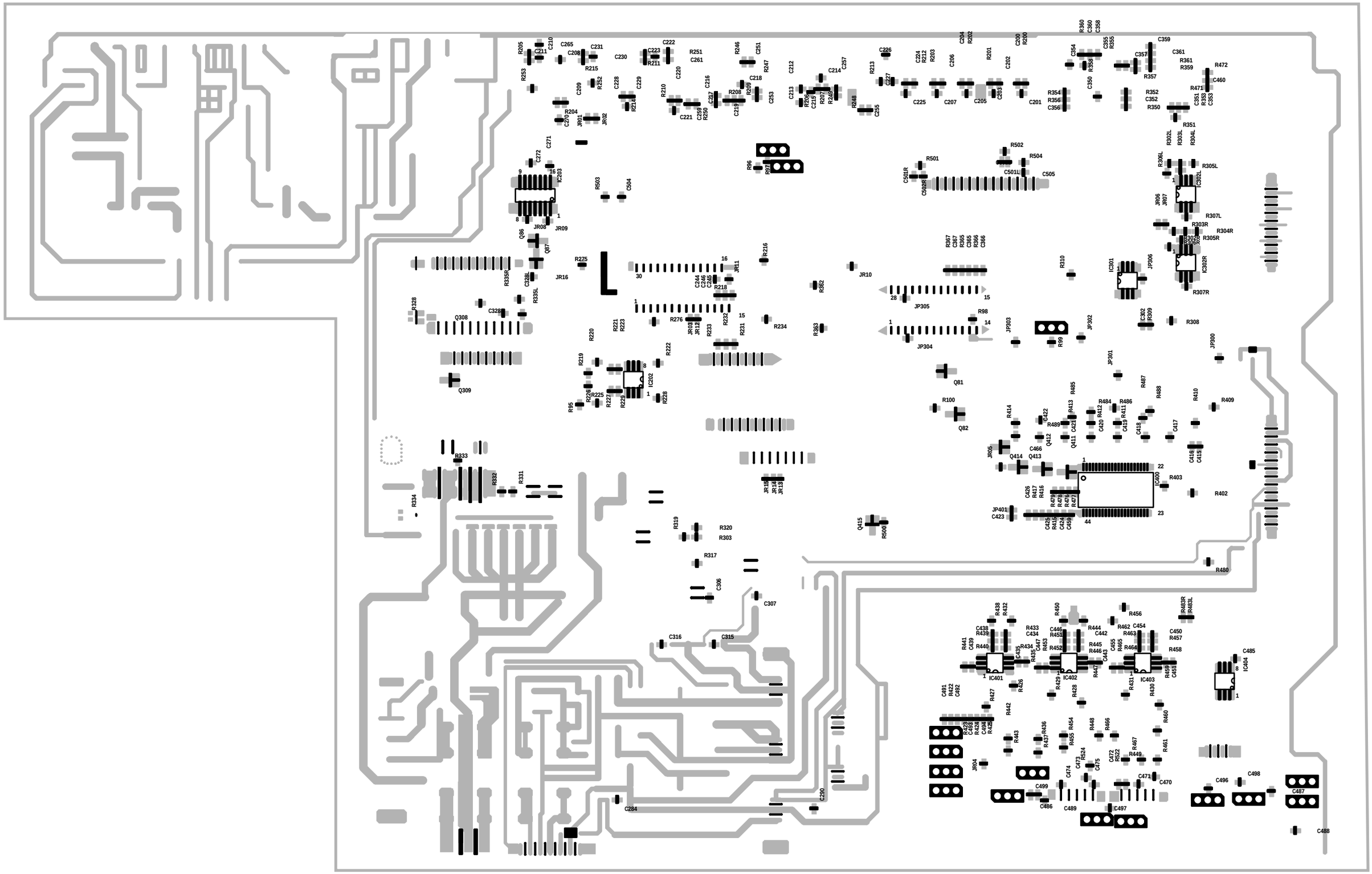
S-video board
Platine s-vidéo
Ltpl. s-video
Piastra s-video
platina s-vídeo



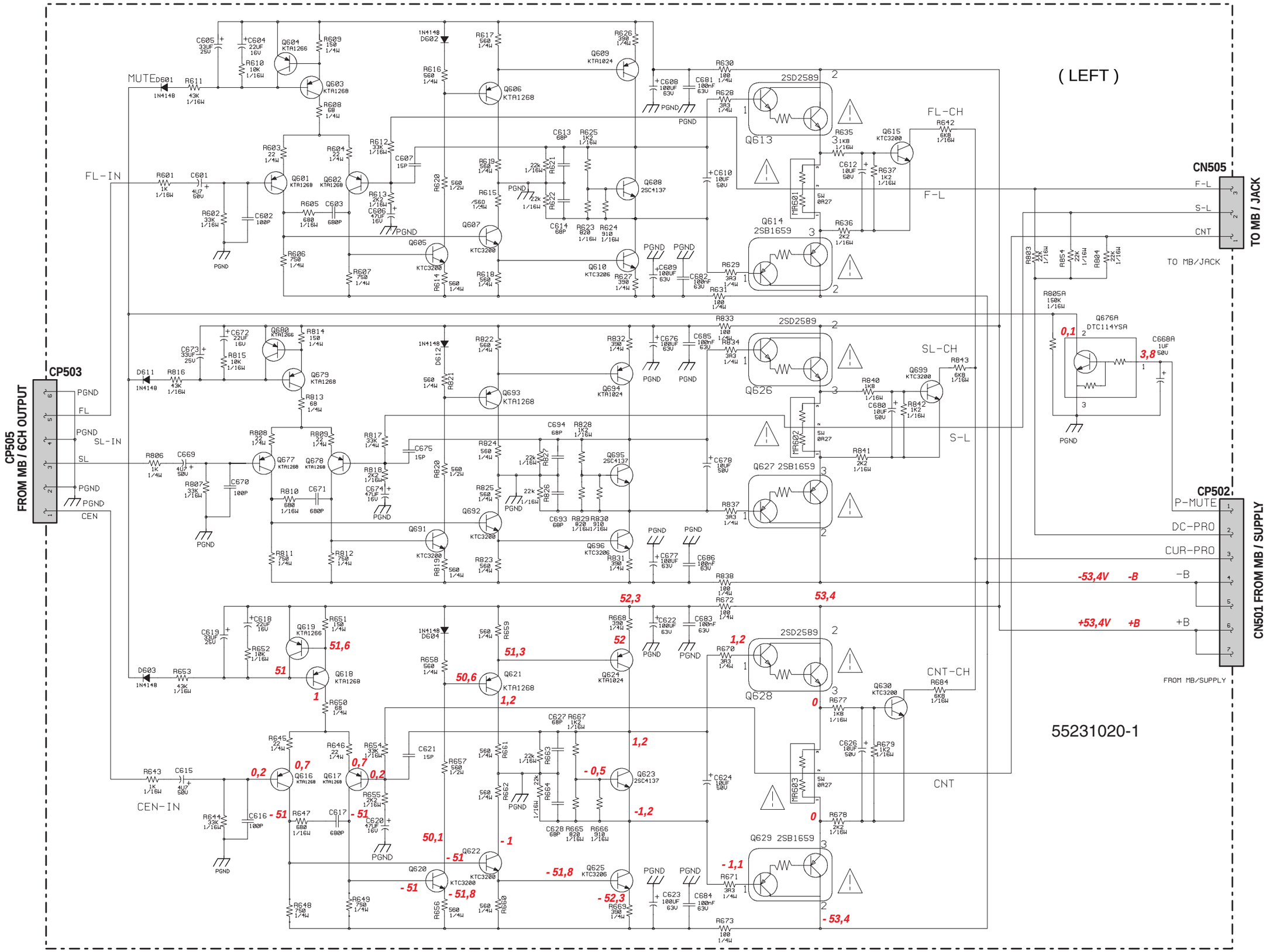
PAV 5008 / 5009
First issue 10 / 02

Main P.C.B. components side - Circuit imprimé de la platine principale côté composants - Hauptleiterplatte Bestückungsseite
Piastra principale lato componenti - Platina principal lado componentes

* Solder side - côté cuivre - Lötseite - Lato saldature -Lado del cobre

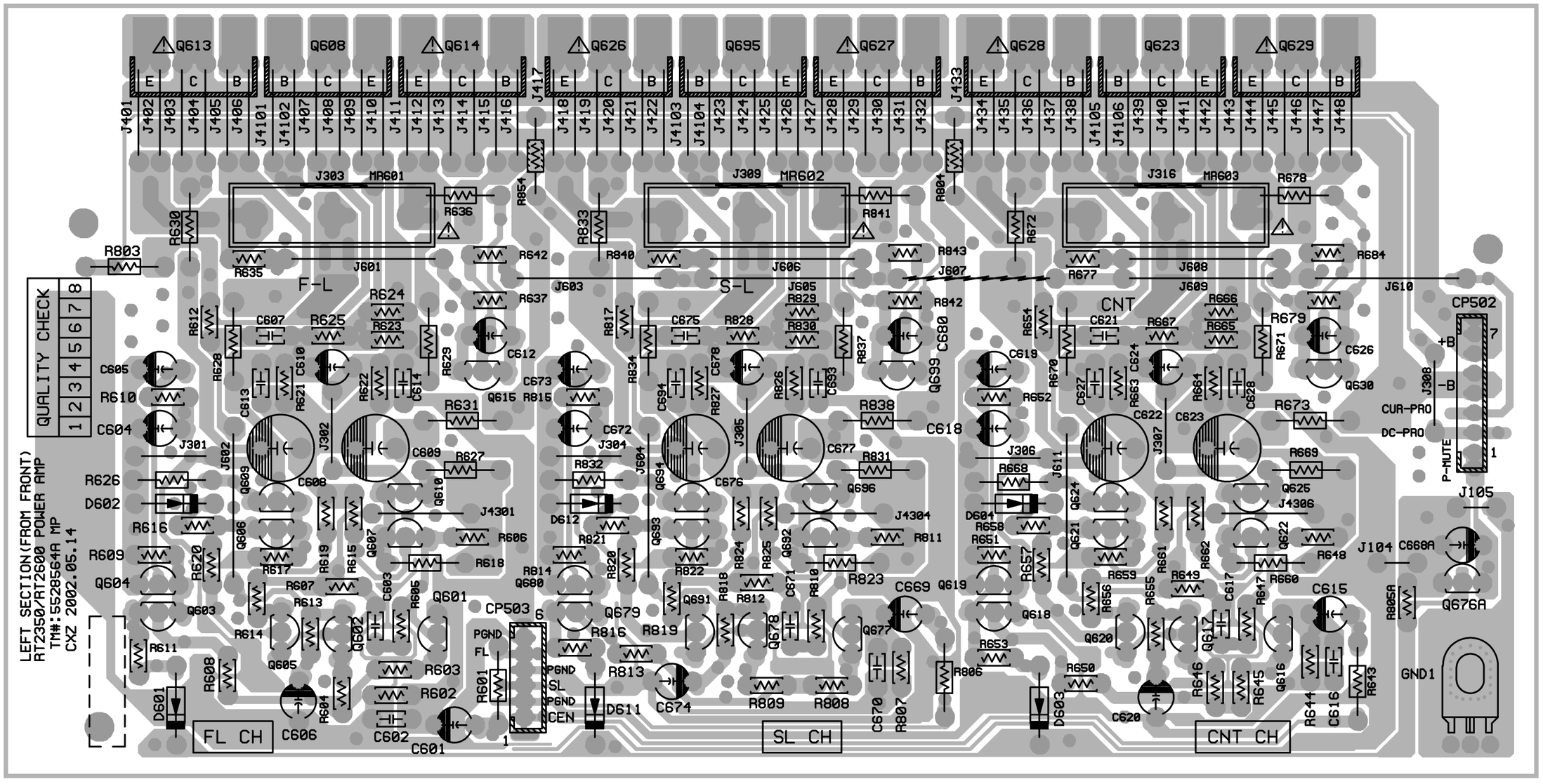


AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

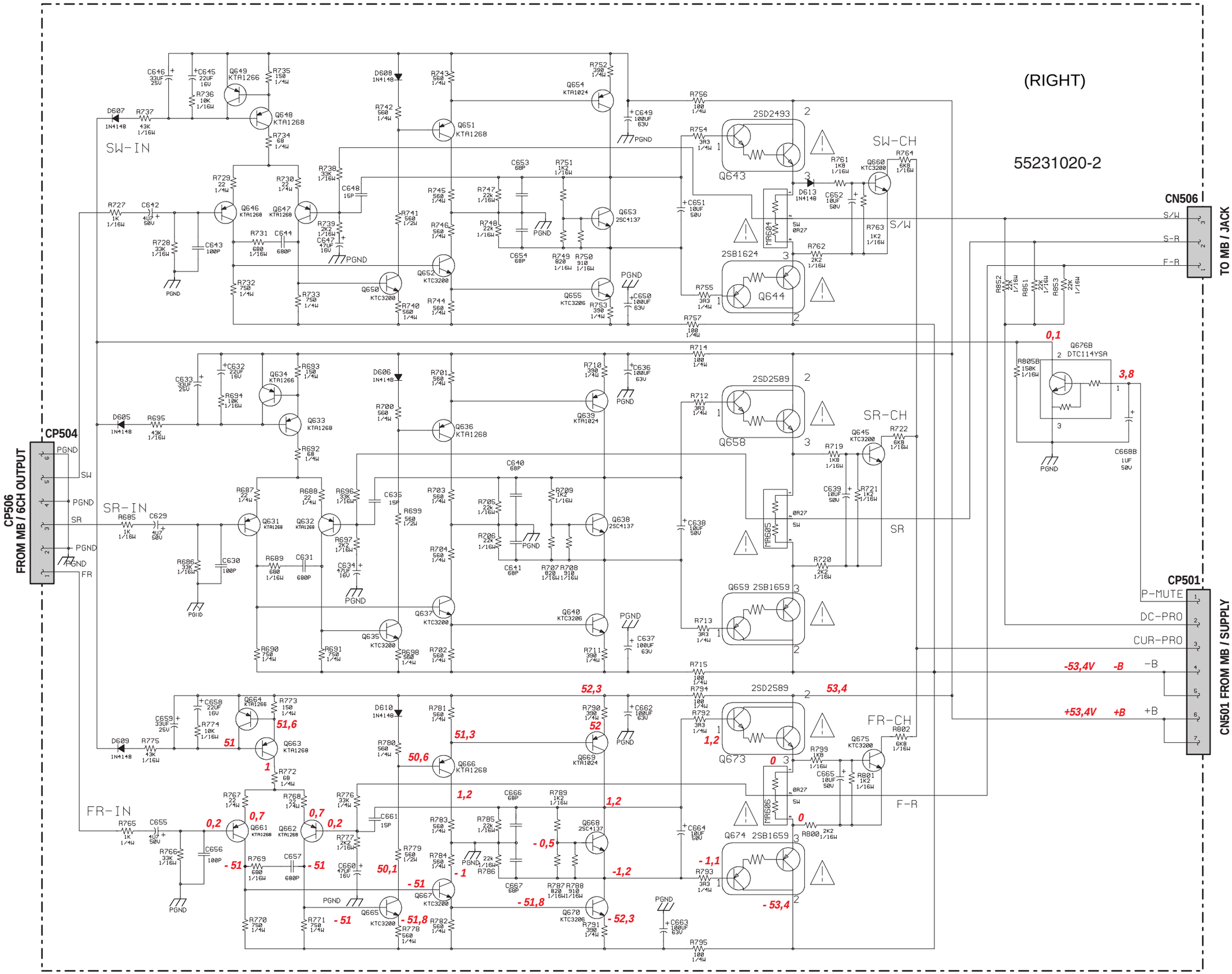


AMPLIFIER P.C.B. - PLATINE AMPLIFICATEUR - LTPL. ENDVERSTÄRKER - PIASTRA AMPLIFICATORE - PLATINA AMPLIFICADOR

(LEFT)

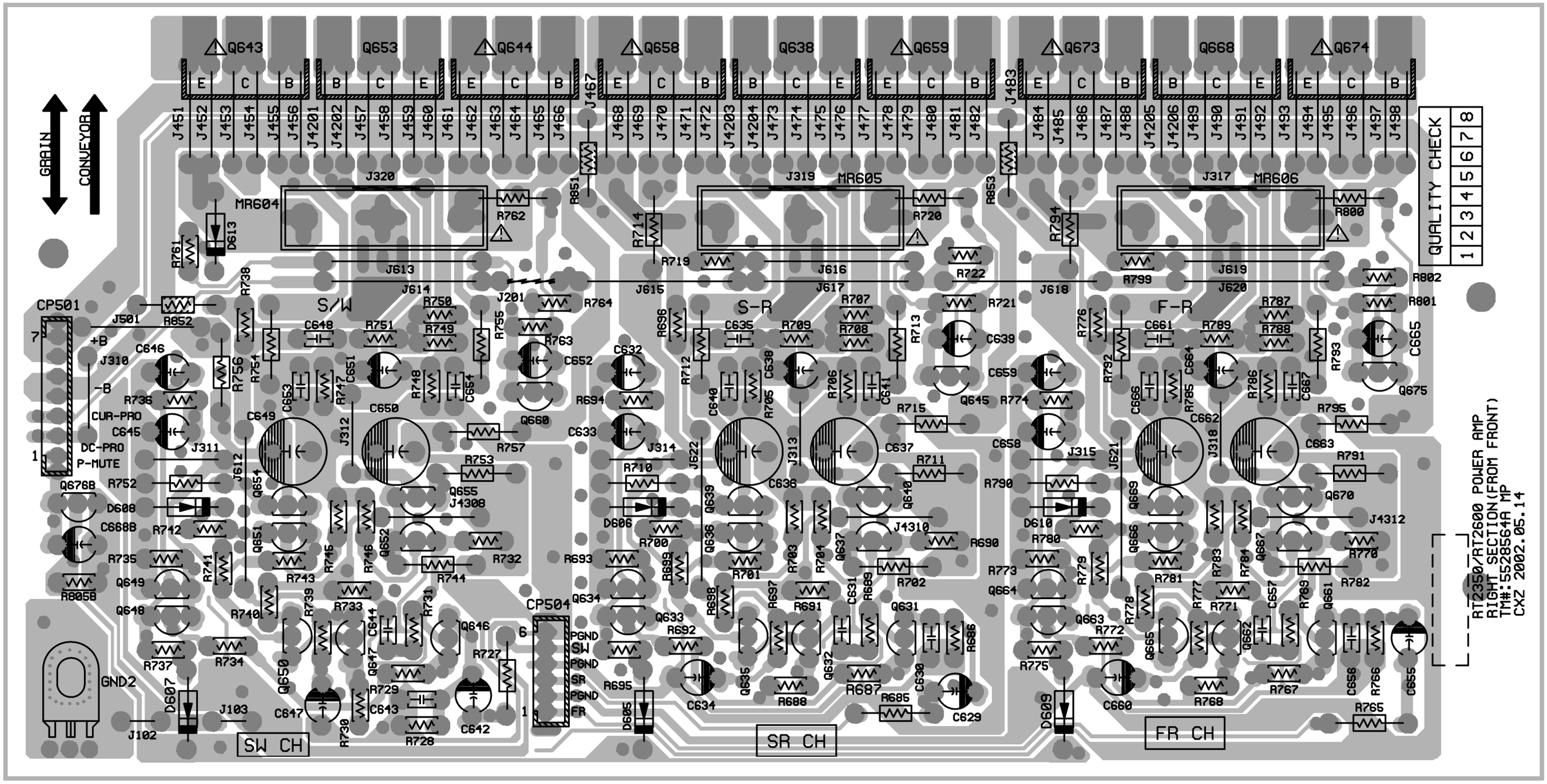


AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR



AMPLIFIER P.C.B. - PLATINE AMPLIFICATEUR - LTPL. ENDVERSTÄRKER - PIASTRA AMPLIFICATORE - PLATINA AMPLIFICADOR

(RIGHT)



DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL